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## PATENT COOPERATION TREATY

#### PCT

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL02/00077

Box III TEXT OF THE ABSTRACT (Continuation of Item S of the first sheet)

The technical features memioned in the abstract do not include a reference significative parentheses (PCT Rule 8.1(d)):

NEW ABSTRACT

An intra-vertebral spacer (20) that can be inserted using a narrow diameter needle (60) is presented. The spacer having a first diameter is inserted and is then expanded to a second, much larger diameter. The radial expansion of the spacer is utilized to achieve a high intra-vertebral fill, without an overly invasive surgical procedure. The spacer may have one of a family of geometrical structures useful for an expanding spacer, for example a plurality of spikes (24) having the same or differing length, are defined around the circumference of the tube (22), so that the tube "expands" in all directions. In an example shown, the spike arrangement, and/or length conforms to an expected shape of the inter-vertebral space.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

#### INTERNATIONAL SEARCH REPORT

Facsimile No. (703)305=3230

Form PCT/ISA/210 (second sheet) (July 1998)

International application No.

PCT/III.02/00077 CLASSIFICATION OF SUBJECT MATTER IPC(7) A61F 2/44 623/17:12 US CL According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 623/17-12: 17.16 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT C. Category. Citation of document, with indication, where appropriate of the relevant passages Relevant to claim No: US 5, 102, 413 A (PODDAR) 07 April 1992 (07.04, 1992); column 3, lines 23-63; Figures 1-3 and 5-6; see entire document. US.5,571,189 A (KUSLICH) 05 November 1996 (05,11.1996), see emire dacument; A - 1 US 5:827,289 A (REILEY et al.) 27 October 1998 (27:10:1998), see emire documents A 4 WO 98/38918 A1 (BEYAR et al.) 11 September 1993 (11:09:1998), see entire document, À .1 Further documents are listed in the continuation of Box C See patent family annex. Special cargories of eited documents later document published after the international filling date or priority due and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance A **X**, document of particular relevance; the claimed invention cannot be considered power or cannot be considered to involve an inventive step -Eearlier, application or patern published on or after the institutional filing case ٠... document which may throw doubts on priority claim(s) or which is cited to when the document is taken alone establish the publication date of another citation or other special reason (13 considered to involve an inventive step when the document is combined with one or more other such documents, such combination. Υdocument referring to an oral disclosure, use, cultilities or other means being obvious to a person skilled in the art. dictiment published prior to the international filling date but ther Can the 4 document includes of the same patent family. striptity date claimed; Date of the actual completion of the international search Date of mailing of the international search report 12 NUV 2002 27 June 2002 (27.06.2002) Name and mailing address of the ISA/US Althorned officer Commissioner of Patents and Trademorts Box PCT Palest G. Blanco Washington, D.C. 20231

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